

Field Office: OXFORD

County: OXFORD

1570 Main Street, Suite 10
Oxford, ME 04270-3390Telephone: (207) 743-5789
FAX: (207) 743-6256**Rock Waterway Design (Lined Waterway or Outlet, 468)**

Landowner: Trial 2

Location: BETHEL

Designed By: KOR

Checked By: MJL

Approved By: C. Benwitz

Date: 8/9/04

Date: 2/14/04

Date: 2/15/04

AS-BUILT

Stationing		Design Q (cfs)	Trial Width B (ft)	Side Slope Z	Slope S1
0+00	1+00	25	6	5	2.0%

Depth (ft.)	Width (ft.)

Stationing		Calculated D ₅₀	
		(in)	(ft)
0+00	1+00	1.6	0.13
Maximum D ₅₀		1.6	0.13

Designer D ₅₀ (in)
6

Designer chosen D50
(delete if using calculated values)

Minimum constructed depth: Feet (delete if using flow depth)

Stationing (ft)	Flow Depth (ft)	Flow Area (sq ft)	Actual Velocity (ft/sec)	D ₅₀ (in)	Constructed Depth (ft)	Top Width T (ft)	Critical Velocity (ft/sec)	Sub- or Super- Critical Flow
0 - 100	0.8	7.9	3.2	6.0	0.8	14	4.3	SUB

NOTE: Waterways or outlets with velocities exceeding critical velocity (supercritical flow) shall discharge into an energy dissipator. Check your job approval authority.**CONSTRUCTION REPORT**Date Started: _____
Construction Approval: _____Date Completed: _____
Date: _____

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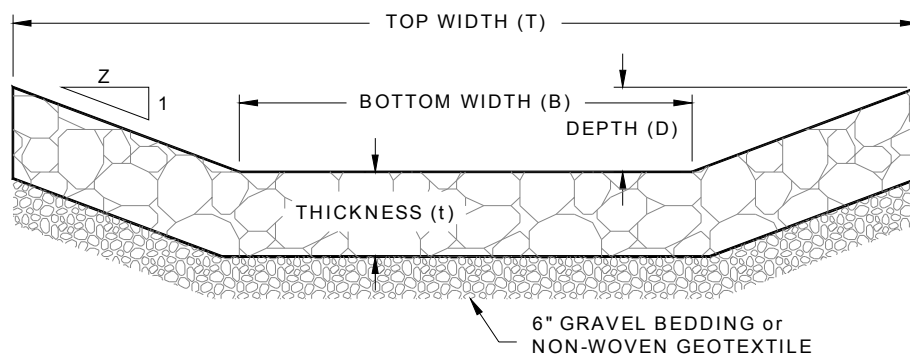
Date: 2/15/04

1-888-DIG-SAFE

LAYOUT

TYPICAL CROSS SECTION OF ROCK WATERWAY

(NOT TO SCALE)



Stationing (ft)	Slope (%)	Constructed Depth (ft)	Bottom Width B (ft)	Top Width T (ft)	Side Slope Z	D ₅₀ (in.)	Rock Thickness t (in)	Estimated Rock Volume(cy/lf)
0 - 100	2.0%	0.8	6.0	14	5	6.0	12	0.52

Maintenance Requirements

1. Inspect regularly and repair damaged sections as needed.
2. Remove sediment deposits to maintain waterway flow capacity.
3. Lift tillage equipment and shut off herbicide sprayers when crossing waterway.
4. Maintain sides of waterway to provide row drainage.